

North American PHEV Demonstration

Fleet Summary Report: Hymotion Prius (V2Green data logger)

Number of vehicles: 172

Reporting Period: Jan 10 - Mar 10

All Trips Combined

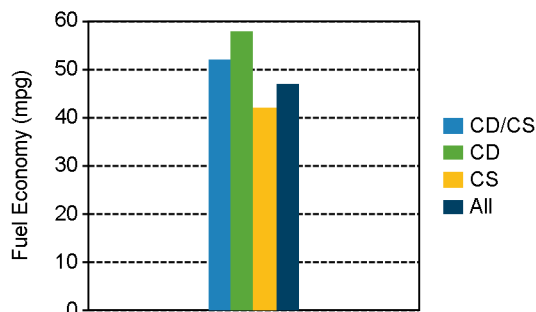
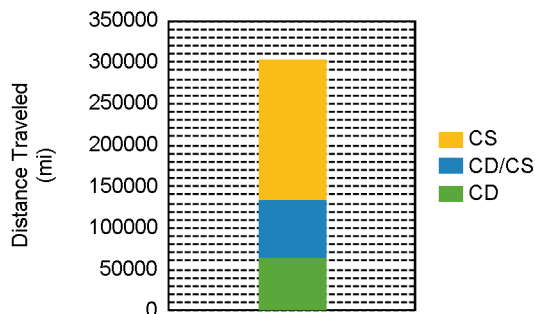
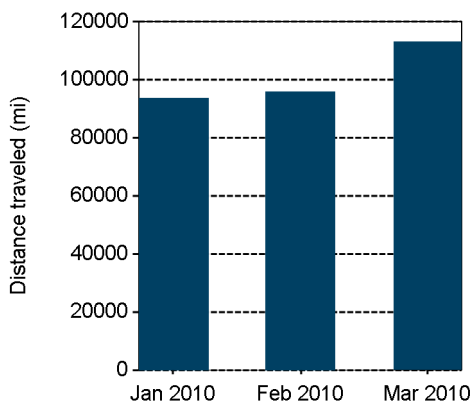
Overall gasoline fuel economy (mpg)	47
Overall AC electrical energy consumption (AC Wh/mi) ¹	54
Overall DC electrical energy consumption (DC Wh/mi) ²	40
Total number of trips	31,852
Total distance traveled (mi)	303,678
Trips in Charge Depleting (CD) mode ³	
Gasoline fuel economy (mpg)	58
DC electrical energy consumption (DC Wh/mi) ⁴	137
Number of trips	13,439
Percent of trips city / highway	87% / 13%
Distance traveled (mi)	63,886
Percent of total distance traveled	21%
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes ⁵	
Gasoline fuel economy (mpg)	52
DC electrical energy consumption (DC Wh/mi) ⁶	49
Number of trips	2,333
Percent of trips city / highway	42% / 59%
Distance traveled (mi)	69,301
Percent of total distance traveled	23%
Trips in Charge Sustaining (CS) mode ⁷	
Gasoline fuel economy (mpg)	42
Number of trips	16,080
Percent of trips city / highway	78% / 22%
Distance traveled (mi)	170,490
Percent of total distance traveled	56%
Number of trips when the plug-in battery pack was turned off by the vehicle operator ⁸	1172
Distance traveled with plug-in battery pack turned off by the vehicle operator (mi) ⁹	14,033

Vehicle Technologies Program

Date range of data received:

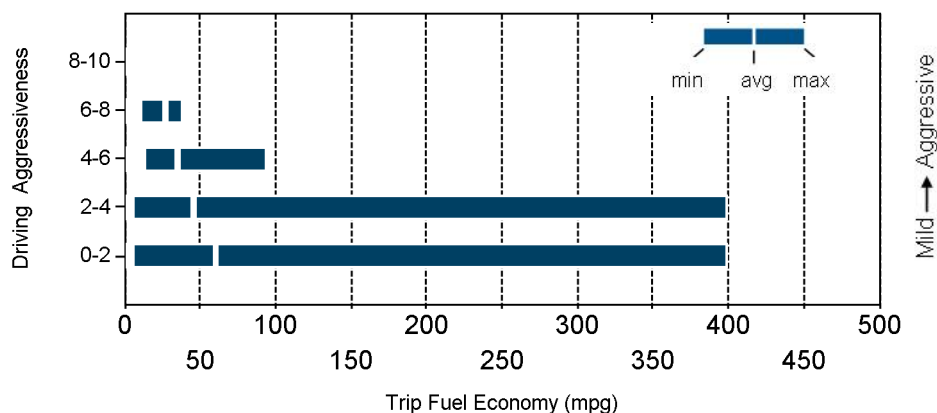
1/1/2010 to 3/31/2010

Number of days the vehicles were driven: 90

Gasoline Fuel Economy By Trip Type**Distance Traveled By Trip Type****Miles Logged by Month This Year**Notes: 1 - 9. Please see <http://avt.inel.gov/phev/reportnotes> for an explanation of all PHEV Fleet Testing Report notes.

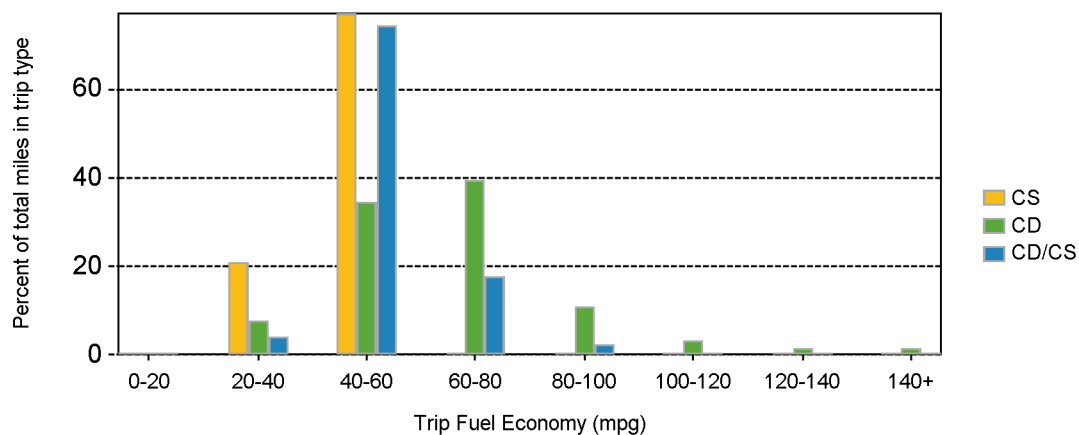
Trips in Charge Depleting (CD) mode			City	Highway
Gasoline fuel economy (mpg)			55	62
DC electrical energy consumption (DC Wh/mi)			157	108
Percent of miles with internal combustion engine off			27%	17%
Average trip aggressiveness (on scale 0 - 10)			2.0	1.9
Average trip distance (mi)			3.2	14.7
Trips in both Charge Depleting and Charge Sustaining (CD/CS) modes				
Gasoline fuel economy (mpg)			52	52
DC electrical energy consumption (DC Wh/mi)			74	45
Percent of miles with internal combustion engine off			24%	10%
Average trip aggressiveness (on scale 0 - 10)			2.0	1.7
Average trip distance (mi)			9.3	44.1
Trips in Charge Sustaining (CS) mode				
Gasoline fuel economy (mpg)			35	45
Percent of miles with internal combustion engine off			22%	9%
Average trip aggressiveness (on scale 0 - 10)			2.0	1.8
Average trip distance (mi)			3.3	36.1

Effect Of Driving Aggressiveness on Fuel Economy This Year



Aggressiveness factor is based on accelerator pedal position. The more time spent during a trip at higher accelerator pedal position, the higher the trip aggressiveness.

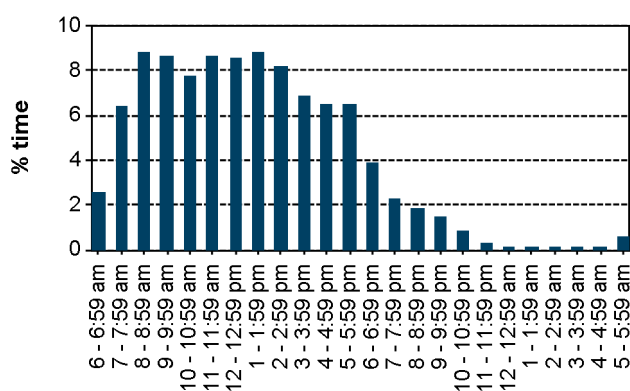
Trip Fuel Economy Distribution By Trip Type



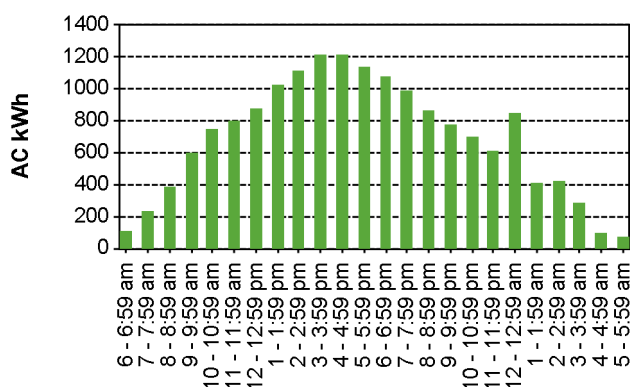
Plug-in charging

Average number of charging events per vehicle per month when driven	12
Average number of charging events per vehicle per day when vehicle driven	0.9
Average distance driven between charging events (mi)	52.0
Average number of trips between charging events	5.5
Average time plugged in per charging event (hr)	24.3
Average time charging per charging event (hr)	2.7
Average energy per charging event (AC kWh)	2.8
Average charging energy per vehicle per month (AC kWh)	33.6
Total number of charging events	5,843
Total charging energy (AC kWh)	16,530

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

